

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600086
(For candidates admitted from the academic year 2019 – 2020 and thereafter)

SUBJECT CODE: 19EC/AC/EM45

B.A. DEGREE EXAMINATION, MAY 2021
BRANCH IV – ECONOMICS
END SEMESTER EXAMINATION

COURSE: ALLIED CORE
PAPER: INTRODUCTORY ECONOMETRICS
TIME: 1 ½ HOURS

MAX. MARKS: 50

SECTION – A

(5 x 2 = 10)

ANSWER ANY FIVE OUT OF SIX QUESTIONS. (50 WORDS EACH)

1. Define econometrics.
2. What is the property of a mathematical model?
3. What are the assumptions of the stochastic disturbance term?
4. Specify and explain the SRF.
5. What is the significance of X being fixed in repeated sampling?
6. What is simultaneous equation bias?

SECTION – B

ANSWER ANY TWO OUT OF THREE QUESTIONS IN 400 WORDS (2 x 10 = 20)

7. Derive the OLS estimators for a 2-variable model. List the properties.
8. Discuss the assumptions underlying the Classical Linear Regression Model.
9. Explain the use of reciprocal model in estimating Phillips curve.

SECTION – C

ANSWER ANY ONE OUT OF TWO QUESTIONS IN 1000 WORDS (1 x 20 = 20)

10. Prove that the OLS estimators of a two-variable linear regression model is BLUE.
11. Calculate a relevant equation for the following sample data:

Price of A: 50	70	78	89	110	120
Quantity A: 164	159	140	100	70	65

Estimate the average price elasticity of demand.

Is the model statistically significant?

